

I claim:

1. Illuminating apparatus for a toilet bowl, wherein a seat ring is pivotally mounted to the toilet bowl by spaced apart, co-axial hinges, for movement between first and second angular positions, comprising:

5 a light assembly, activated by a switch responsive to angular orientation, and having a generally tubular body of a given length, with two ends; and

10 a toilet seat ring having a centrally located cavity at the rearmost edge, in between the spaced apart hinges, the cavity having a lateral wall and two horizontally opposed end walls, with the distance between the cavity end walls being equal to or less than the given length, so as to hold the light assembly for movement between a first seat ring angular position, wherein light is directed into the toilet bowl interior, and a second seat ring angular position, wherein the light is deactivated.

2. The apparatus of claim 1 and further comprising:
  - a protrusion on the light assembly end; and
  - a recess in at least one of the horizontally opposed end walls, located engage the end protrusion.
3. The apparatus of claim 1 and further comprising:
  - a recess in the light assembly body end; and
  - a protrusion on at least one of the horizontally opposed end walls, located to engage the end recess.
4. The apparatus of claim 2 wherein a portion of the cavity wall bears against the light assembly, so as to maintain a given angular relationship between the light assembly body and the seat ring.
5. The apparatus of claim 2, wherein contacting contours of the protrusion and recess cooperate to maintain a given angular relationship between the light assembly and the seat ring.
6. The apparatus of claim 2, wherein the given length is resiliently reduced for engagement of the protrusion and the recess.
7. The apparatus of claim 2 wherein the protrusion and recess are aligned with the hinge axes.
8. The apparatus of claim 3 wherein a portion of the cavity wall bears against the light assembly, so as to maintain a given angular relationship between the light assembly body and the seat ring.
9. The apparatus of claim 3, wherein contacting contours of the protrusion and recess cooperate to maintain a given angular relationship between the light assembly and the seat ring.

10. The apparatus of claim 3, wherein the given length is resiliently reduced for engagement of the protrusion and the recess.

11. The apparatus of claim 3 wherein the protrusion and recess are aligned with the hinge axes.

12. The apparatus of claim 6, further comprising:

a radially constrained "O" ring seal mounted between an end and the body so as to be axially compressed upon installation of the light assembly in the cavity.

13. The apparatus of claim 6, further comprising:

a spring mounted between an end and a protrusion so as to be compressed upon installation of the light assembly in the cavity.

14. The apparatus of claim 10, further comprising:

a radially constrained "O" ring seal mounted between an end and the body so as to be axially compressed upon installation of the light assembly in the cavity.

15. The apparatus of claim 10, further comprising:

a spring mounted between an end and a protrusion so as to be compressed upon installation of the light assembly in the cavity.

16. Gravity actuated lighting apparatus for a toilet bowl, wherein a seat ring is pivotally mounted to the toilet bowl by spaced apart, co-axial hinges, for movement between first and second angular positions, and has a cavity of a given length in the area between the inwardly opposed faces of the hinge assemblies, comprising:

- 5           a light assembly, shaped to fit into the cavity, having two ends and an overall length equal to or greater than the given cavity length, so as to be gripped between the inwardly opposed faces of the hinge assemblies, where the light is oriented to shine into the toilet bowl interior when the seat ring is in the first angular position and deactivated when the toilet seat ring is in the second angular position.

17. The apparatus of claim 16 and further comprising:
  - a protrusion on the light assembly end; and
  - a recess in at least one of the inwardly opposed hinge faces, located to correspond with and engage the end protrusion.
18. The apparatus of claim 16 and further comprising:
  - a recess in the light assembly body end; and
  - a protrusion on at least one of the inwardly opposed hinge faces, located to correspond with and engage the recess.
19. The apparatus of claim 17 wherein a portion of the cavity wall bears against the light assembly, so as to maintain a given angular relationship between the light assembly body and the seat ring.
20. The apparatus of claim 17, wherein contacting contours of the protrusion and recess cooperate to maintain a given angular relationship between the light assembly and the seat ring.
21. The apparatus of claim 17, wherein the overall light assembly length is resiliently reduced for engagement of the protrusion and the recess.
22. The apparatus of claim 17, wherein the protrusion and recess are aligned with the hinge axes.
23. The apparatus of claim 18, wherein a portion of the cavity wall bears against the light assembly, so as to maintain a given angular relationship between the light assembly body and the seat ring.

24. The apparatus of claim 18, wherein contacting contours of the protrusion and recess cooperate to maintain a given angular relationship between the light assembly and the seat ring.
25. The apparatus of claim 18, wherein the light assembly overall length is resiliently reduced for engagement of the protrusion and the recess.
26. The apparatus of claim 18, wherein the protrusion and recess are aligned with the hinge axes.
27. The apparatus of claim 21, further comprising:  
a radially constrained "O" ring seal mounted between an end and the body so as to be axially compressed upon installation of the light assembly in the cavity.
28. The apparatus of claim 21, further comprising:  
a spring mounted between an end and a protrusion so as to be compressed upon installation of the light assembly in the cavity.
29. The apparatus of claim 25, further comprising:  
a radially constrained "O" ring seal mounted between an end and the body so as to be axially compressed upon installation of the light assembly in the cavity.
30. The apparatus of claim 25, further comprising:  
a spring mounted between an end and a protrusion so as to be compressed upon installation of the light assembly in the cavity.